

Summary:

Christina Hammock Koch was selected as an astronaut by NASA in 2013. She completed astronaut candidate training in 2015. She most recently served as flight engineer on the International Space Station (ISS) for Expedition 59, 60 and 61. Koch set a record for the longest single spaceflight by a woman with a total of 328 days in space.

Personal Data:

Koch is a native of Grand Rapids, Michigan, grew up in Jacksonville, North Carolina and resided in Livingston, Montana before relocating to Houston, Texas to join the Astronaut Corps. Koch enjoys backpacking, rock climbing, paddling, surfing, running, yoga, community service, photography and travel.

Education:

Koch attended North Carolina State University in Raleigh, North Carolina, where she earned a Bachelor of Science in Electrical Engineering (2001), a Bachelor of Science in Physics (2002) and a Master of Science in Electrical Engineering (2002). She attended high school at the North Carolina School of Science and Mathematics in Durham, North Carolina (1997) and White Oak High School in Jacksonville, North Carolina. She received an Honorary Ph.D. from North Carolina State University in 2020.

Experience:

Koch's career prior to becoming an Astronaut spanned both space science instrument development and remote scientific field engineering. Her career began as an Electrical Engineer at the NASA Goddard Space Flight Center (GSFC) Laboratory for High Energy Astrophysics, where she contributed to scientific instruments on several NASA space science missions. Koch then became a Research Associate in the United States Antarctic Program from 2004 to 2007. This included a yearlong stay with a winter-over at the Admunsen-Scott South Pole Station and a season at Palmer Station. While in this role, she served as a member of the Firefighting and Search and Rescue Teams. From 2007 to 2009, Koch returned to space science instrument development as an Electrical Engineer at the Johns Hopkins University Applied Physics Laboratory's Space Department. She contributed to instruments on mission including Juno and the Van Allen Probes. In 2010, Koch returned to remote scientific field work with tours at Palmer Station in Antarctica and multiple winter seasons at Summit Station in Greenland. In 2012, Koch continued work at remote scientific bases, now with the National Oceanic and Atmospheric Administration (NOAA). She served as a Field Engineer at NOAA's Global Monitoring Division Baseline Observatory in Utqiagvik, Alaska and then as Station Chief of the American Samoa Observatory. Throughout her career, she was involved in in technical instructing, volunteer tutoring and educational outreach.

NASA Experience:

Koch participated in the NASA Academy program at Goddard Space Flight Center (GSFC) in 2001 and worked as an Electrical Engineer at GSFC from 2002 to 2004. Koch was selected in June 2013 as one of eight members of the 21st NASA astronaut class. In 2018, she was assigned to her first space flight, a long duration mission on the ISS.

ASTRONAUT BIOGRAPHY

Christina H. Koch



Koch was a part of ISS Expeditions 59, 60 and 61. She launched on March 14, 2019 from the Baikonur Cosmodrome on the Soyuz MS-12 spacecraft with Russian Cosmonaut Alexey Ovchinin and NASA Astronaut Nick Hague. She returned to Earth on February 6, 2020 on the MS-13 Soyuz spacecraft with Russian Cosmonaut Alexander Skvortsov and ESA Astronaut Luca Parmitano. While aboard the ISS, she and her crewmates contributed to hundreds of experiments in biology, Earth science, human research, physical science and technology development. Some of the scientific highlights from her missions include improvements to the Alpha Magnetic Spectrometer, which studies dark matter, growing protein crystals for pharmaceutical research and testing 3D biological printers to print tissues in microgravity. Koch conducted six spacewalks, including the first three all women spacewalks, totaling 42 hours and 15 minutes. She has spent a total of 328 days in space.

After her spaceflight, Koch served as Branch Chief of the Assigned Crew Branch in the Astronaut Office. She is currently serving in a rotational position as the NASA Johnson Space Center Director's Assistant for Technical Integration.

Awards/Honors:

Astronautics Engineer Award, National Space Club & Foundation, 2020; Global ATHENA Leadership Award, ATHENA International, 2020. NASA Group Achievement Award, NASA Juno Mission Jupiter Energetic Particle Detector Instrument, 2012; Johns Hopkins University Applied Physics Laboratory, Invention of the Year nominee, 2009; United States Congress Antarctic Service Medal with Winter-Over distinction, 2005; NASA Group Achievement Award, NASA Suzaku Mission X-ray Spectrometer Instrument, 2005.